

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 09327447 A  
 (43) Date of publication of application: 22.12.1997

(51) Int. Cl A61B 5/07  
 A61B 10/00, A61B 17/36, A61N 5/06

(21) Application number: 08145986	(71) Applicant: OLYMPUS OPTICAL CO LTD
(22) Date of filing: 07.06.1996	(72) Inventor: TAKIZAWA HIRONOBU HIRATA YASUO ADACHI HIDEYUKI OZAWA TSUYOSHI

## (54) MEDICAL CAPSULE

## (57) Abstract:

PROBLEM TO BE SOLVED: To provide a medical capsule to force least inconvenience to a patient for power supply and capable of using for a long time in an organism.

SOLUTION: A spherical inner capsule 3 embedded with an observation device 11 and a lighting device 12 is rotatably supported by a pin 6 protruded from a beam 4 and a motor rotation shaft 8, and a motor shaft 10 of an electromagnetic motor 9 mounted on the top part of the beam 4 is fixed to a spherical outer shell capsule 2. The observation direction is made possible to be arbitrarily set by rotations of electromagnetic motors 7 and 9, further, the stator side of an electromagnetic dynamo 13 is fixed in the inner capsule 3, an eccentric weight 17 is fixed to a rotation shaft 16 rotatably attached with an electromagnetic coil, the electric energy generated by acting the rotation force of the eccentric weight 17 on the rotation shaft 16 is charged in a battery 15 to make the capsule capable of being embedded in an organism for observation even without supplying power for a long time.

COPYRIGHT: (C)1997,JPO

